perty. Dayton, 21st, Miami river reached the high-water mark of the flood of 1881; no damage to property. Logan, 21st, Hocking river higher than for many years; bottom lands submerged. Mass, 22d, 3 p. m., violent northeast gale, accompanied Gambier. 21st, river overflowed; railroad bridge carried away by the highest tide for many years. The water invaded and much other property damaged. New Comerstown, 21st. incessant rain for the past four days. Tuscarawas river and its tributaries overflowed. Wheat fields submerged and fences swept away. Ironton, 21st, river 43 feet and 8 inches above low-water mark and rapidly rising. Circleville, 21st, Scioto river unusually high; 5 p. m., river within one foot of the highest point ever reached, and rising at the rate of one inch per hour. Heavy washouts on the railroads. Columbus, 20th, Scioto river rose rapidly during the day. river reached the highest point known for years; a number of cellars in northwest portion of the city were flooded. In some instances people were compelled to abandon their homes. A large quantity of lumber was washed away. Pennsylvania: Easton, 2d, Delaware river 23 feet above low-water mark and rising rapidly. River filled with lumber and broken rafts. lower floors of mills in south Easton submerged and considerable damage done to the locks on the Lehigh and Delaware canals. Harrisburg, 21st, Susquehanna eight feet above lowwater mark and rising rapidly. Paxton creek overflowed and much damage in surrounding country. Milton, 21st, heavy rain during past 25 hours caused serious washouts on Pennsylvania R. R and west branch of Pennsylvania canal; streams considerably swollen; west branch of the Susquehanna river very Tennessee: Tiptonville, 24th, country flooded some distance from the river; buildings carried away and considerable stock drowned. Memphis, 20th, river remained above the danger-line throughout the month; all bottom lands submerged. The extent of territory in surrounding country endangered by the flood has been estimated as containing a population of 30,000. The estimated loss to the cotton crop has been put at 1,000,000 bales. The known loss in some particulars, attending the flood in this region is 30,000 head of stock and 50 human lives. Railroad travel is "terribly demoralized." Texas: Navazota, 10th, Navazota and Brazos rivers overflowed and hundreds of cattle drowned in the bottom lands. Dallas, 8 p. m. until a. m. of 18th a faint light after 12th, almost incessant rain prevailed theorem. 12th, almost incessant rain prevailed throughout eastern and color. northern Texas during the past week. Entire country flooded. People find it impossible to visit the towns for trade. river overflowed and 20 miles of the Texas and Pacific railroad washed away. Reports from all sections show that the rivers are higher than at any time since the great floods of 1852 and 1866. Large quantities of lumber, cordwood, household utensils, bridge timbers and farm implements, together with numerous small buildings and the bodies of dead animals, floated down the principal rivers and their tributaries. Heavy washouts reported on all railroad lines, and most of them first seen at 7.25 p. m. as a mere glow in the west; at ten abandoned regular trains. The Brazos river overflowed to an unprecedented extent. Scores of country bridges washed away. Reports from Fort Worth state that Trinity river still continues to rise. Corsicana, 3d, very heavy rains continued without much interruption during the past three weeks. During the night two serious washouts occurred on the Texas and St. Louis railroad. Much other damage in surrounding coun-Grapeland, 3d, rain has fallen incessantly for several Water courses higher than for the past 20 years. Vermont: St. Albans, 2d, Misisqual, Lamville and Minosski 5° rivers overflowed, causing much damage to private and corporate property.* Railroad travel suspended. Rivers very much swollen throughout the northern portion of the State. N. J., during the evening. Moorestown, N. J., low sheet Virginia: Petersburg, 14th, in consequence of high water all aurora. Readington, N. J., during the evening. Atlantic mills practically ceased operations. Appoint tox river higher than for the past five years; water still rising. West Virginia: Wheeling, 19th, river 19 feet and 9 inches above ginia: Wheeling, 19th, river 19 feet and 9 inches above 10.30 to 11.30 p. m., aurora consisted of diffuse light with-low-water mark and rapidly rising. Washington Territory: out streamers. Thornville, Mich., 8.30 p. m., no rays; merely Pomeroy, 28th, snow melting in the mountains, caused a dull diffused light, 20° above the horizon; when last ob-

very high from 10 to 11 a.m. Indianola, Tex., 18th, 19th, 20th, 24th, 25th. New York, 21st, very high. Plymouth, the streets and cellars and considerable damage was done at the lumber yards. At one of the yards a large bulk-head was torn away and left in ruins. Swampscott, Mass., 23d, remarkably high tide, overflowing some of the streets. On some parts of the beach the waves dashed to the second story windows of neighboring dwellings. Highest tide for many years. Revere Beach, Mass., 21st, tide so high that it damaged the theatre building, nearly undermining it.

TEMPERATURE OF WATER.

The temperature of water, as observed in rivers and harbors at Signal Service stations, with the average depth at which observations were taken, is given in the table on the left-hand side of chart No. III. Owing to the presence of ice or the breakage of instruments, observations are wanting as follows: Alpena, 1st to 15th, 21st to 28th; Cleveland, 1st to 10th; Detroit, 1st to 5th, 11th, 12th, 19th to 28th; Duluth, 22d to 28th; Escanaba, throughout the month; Buffalo, 1st to 12th, 23d to 26th; Sandusky, 1st to 12th, 23d to 28th; Chicago, 1st to 5th, 24th; San Francisco, 21st; Marquette, 5th to 28th; Burlington, throughout the month; Milwaukee, throughout the month; Toledo, 1st to 14th; Chincoteague, 21st to 28th; Provincetown, station opened on the 15th; Portland, Me., report too late for publication.

ATMOSPHERIC ELECTRICITY.

Auroras.—The display of the 17th, the most important of the month, was observed from Sydney, N. B., westward to points in the Upper Lake Region (Grand Haven being the most westerly) and southward to Atlantic City, N. J., the following stations reporting: Bangor, Me., from 10 p. m. until daybreak of 18th. Cornish, Me., all night, altitude from 10° to Burlington, Vt., from 7 to 11.45 p. m. diffuse light, extending upward 30° from the horizon; no streamers or dark segment. Lunenburg, Vt., and Amherst, Mass., during the evening. Westborough, Mass., 7 to 9 p. m. Williamstown, Mass., 10 p. m., bright band of light in northern horizon; altitude about 5° and stretching through 30° azimuth. Fall River, Mass., 9 p. m., to midnight. Harvard College, Cambridge, Mass., auroral arch bright and broad; not seen early, but thought to be visible about 7.30 p. m.; distinct, later; some streamers about 10.30 p. m. Springfield, Mass., p. m. it was visible in the north, and until 11.30 p. m., when last observed. Newport, R. I., from 8.30 to 10 p. m., faint, altitude about 10°; azimuth, 45°. New Shoreham, R. I., from 8 to 11.50 p. m. brilliant; it formed an arch about 15° above the northern horizon and 10° in width; well defined luminous beams were exhibited, and often bright flashes of light would extend from 30° to 40° above the horizon. Southington, Conn., diffuse light. Toronto, Can., during the evening. Rochester, 9.30 p. m., dim aurora with a dark segment of altitude, no streamers visible. Waterburg and Ardenia, N. Y., during the evening. Freehold, N. J., 8.45 to 9.30 p. m. low aurora, only a white glow; altitude 10°. Somerville, City, 9 p. m., faint low aurora. Fallsington, Pa., 9 p. m. Mount Forrest, Can., during the evening. Alpena., Mich., sudden rise in streams; portions of the town were flooded. served, at 10.30 p.m., it remained unchanged. Grand Haven, High Tides.—Delaware Breakwater, 21st, unusually high. Mich., 8.30 to 9.30 p.m., faint aurora in northern sky; had Chincoteague, Va., 18th, unusually high at 8 a. m.; 21st, the appearance of morning dawn; altitude 5°. azimuth,